

Title (en)  
SYNCHRONIZED DATA TRANSFER SYSTEM

Title (de)  
SYNCHRONISIERTES DATENTRANSFERSYSTEM

Title (fr)  
SYSTEME DE TRANSFERT DE DONNEES SYNCHRONISE

Publication  
**EP 1692620 A4 20090812 (EN)**

Application  
**EP 04812687 A 20041202**

Priority  
• US 2004040235 W 20041202  
• US 52643703 P 20031202  
• US 99966104 A 20041130

Abstract (en)  
[origin: US2005114538A1] A synchronized data transfer system including storage processor nodes, a backbone communication switch, multiple titles subdivided into subchunks and distributed across the nodes, a user process executed on a first node, a transfer process executed on a second node, and a management process executed on a management node. The user process sends a timestamped read request to request a corresponding subchunk. The transfer process sends a message to the management process for each received read request, where each message identifies source and destination nodes. The management process broadcasts transmit commands to initiate sequential transmit periods, receives the messages, and selects from among the received messages to ensure that each node sends or receives only one subchunk during each transmit period. The management process sends a transmit request for each selected message, and the transfer process sends a subchunk identified by a transmit request in response to the transmit command.

IPC 8 full level  
**H04L 29/06** (2006.01); **H04N 5/00** (2006.01); **H04N 7/173** (2006.01); **H04L 29/08** (2006.01)

IPC 8 main group level  
**H04L** (2006.01)

CPC (source: EP US)  
**H04L 9/40** (2022.05 - US); **H04L 65/1101** (2022.05 - US); **H04L 65/612** (2022.05 - EP US); **H04L 67/1097** (2013.01 - EP US); **H04L 67/62** (2022.05 - EP US); **H04N 7/17318** (2013.01 - EP US); **H04N 21/2182** (2013.01 - EP US); **H04N 21/21825** (2013.01 - EP US); **H04N 21/2315** (2013.01 - EP US); **H04N 21/2318** (2013.01 - EP US); **H04N 21/2326** (2013.01 - EP US); **H04N 21/2405** (2013.01 - EP US); **H04L 67/1001** (2022.05 - EP US); **H04L 67/10015** (2022.05 - EP US)

Citation (search report)  
• [A] US 6134596 A 20001017 - BOLOSKY WILLIAM J [US], et al  
• [A] US 5367520 A 19941122 - CORDELL ROBERT R [US]  
• [A] US 5915094 A 19990622 - KOULOHERIS JACK LAWRENCE [US], et al  
• [A] US 6415328 B1 20020702 - KORST JOHANNES H M [NL]  
• [A] KUMAR M ET AL: "A HIGH PERFORMANCE VIDEO SERVER FOR BROADBAND NETWORK ENVIRONMENT", PROCEEDINGS OF THE SPIE -THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING, SPIE, PO BOX 10 BELLINGHAM WA 98227-0010 USA, vol. 2667, 29 January 1996 (1996-01-29), pages 410 - 421, XP000675452, ISSN: 0277-786X  
• See references of WO 2005057828A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**US 2005114538 A1 20050526**; **US 7788396 B2 20100831**; CA 2547440 A1 20050623; CA 2547440 C 20110111; DE 04812687 T1 20070118; EP 1692620 A2 20060823; EP 1692620 A4 20090812; EP 1692620 B1 20101103; JP 2007513582 A 20070524; JP 4426589 B2 20100303; MX PA06006330 A 20060823; WO 2005057828 A2 20050623; WO 2005057828 A3 20060406

DOCDB simple family (application)  
**US 99966104 A 20041130**; CA 2547440 A 20041202; DE 04812687 T 20041202; EP 04812687 A 20041202; JP 2006542714 A 20041202; MX PA06006330 A 20041202; US 2004040235 W 20041202